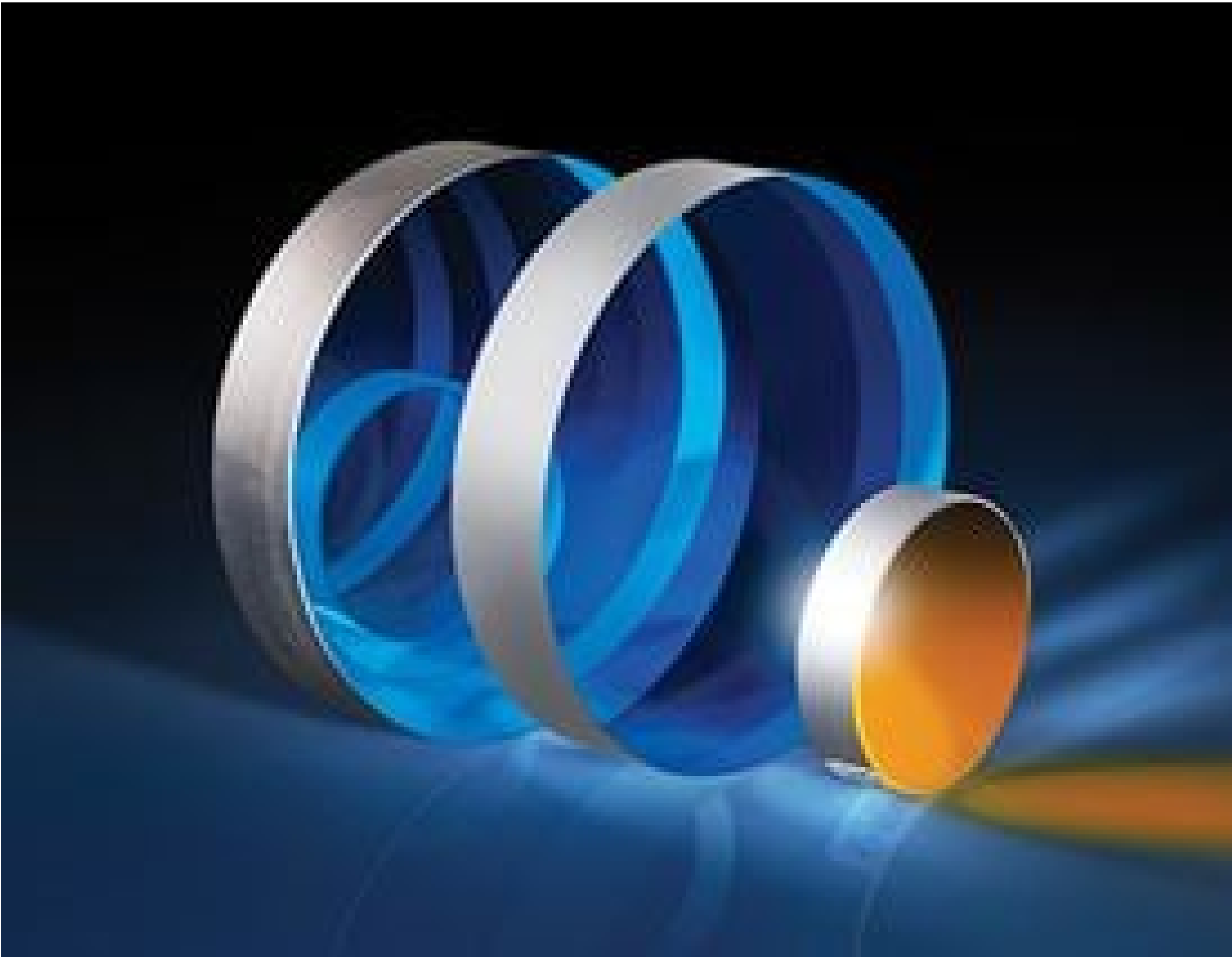


TECHSPEC[®] 4" Dia. Protected Aluminum, $\lambda/20$ Flat ZERODUR[®]



Stock **#48-118-522** 3-4 DAYS

-

1

+

€1.045⁰⁰

ADD TO CART

Qty 1-5
€1.045,00
Qty 6+
€940,00
Volume Pricing
Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Note:	
Flatness is specified as Peak to Valley	
Type:	
Flat Mirror	
Physical & Mechanical Properties	
Diameter (mm):	
101.60 +0.0/-1.02	
Back Surface:	
Commercial Polish	
Diameter Tolerance (inches):	
+0.0/-0.04	
Clear Aperture CA (mm):	
91.44	
Thickness (mm):	
19.10 ±1.5	
Thickness Tolerance (mm):	
±1.5	
Optical Properties	
Surface Flatness (P-V):	
λ/20	
Substrate: ☐	
	
Surface Quality:	
60-40	
Coating Specification:	
R _{avg} >85% @ 400 - 700nm R _{avg} >90% @ 400 - 2000nm	
Coating:	
Protected Aluminum (400-2000nm)	
Coating Type:	
Metal	
Wavelength Range (μm):	
0.4 - 2	
Wavelength Range (nm):	
400 - 2000	
Damage Threshold, Reference: ☐	
0.3 J/cm² @ 532nm & 1064nm, 10ns	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 242:	
Compliant	

PRODUCT DETAILS

- Fused Silica and ZERODUR® Substrates
 - λ/10 and λ/20 Surface Flatness
 - Variety of Coating Options Offered
- TECHSPEC® Precision Optical Flat Mirrors are ideal for various applications, including interferometry, imaging systems, laser applications, optical path folding, and autocollimation. These mirrors are available in multiple coating and substrate options and surface flatness options of λ/10 and λ/20. The first substrate option ZERODUR®, a yellow-tinted glass ceramic, features an extremely low coefficient of thermal expansion. TECHSPEC® Precision Optical Flat Mirrors are ideal for applications where temperature fluctuation is a concern using the ZERODUR® substrate. The second option, Fused Silica, is optically clear and features excellent resistance to abrasion and high durability, making it the best choice for applications in harsh environments.
- [TECHSPEC® λ/10 and λ/20 Precision Optical Flats](#) are available for testing and measurement applications.
- Note:** Surface flatness specifications are measured before coating.

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

COMPATIBLE MOUNTS

